

Date: Fri, 22 Apr 94 04:30:10 PDT  
From: Ham-Ant Mailing List and Newsgroup <ham-ant@ucsd.edu>  
Errors-To: Ham-Ant-Errors@UCSD.Edu  
Reply-To: Ham-Ant@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Ant Digest V94 #115  
To: Ham-Ant

Ham-Ant Digest                      Fri, 22 Apr 94                      Volume 94 : Issue 115

Today's Topics:

2m/70cm on a Honda.. Which One?  
2m Amplifier mounted at antenna?  
70cm Parabolic Dish  
Power (?) noise in antenna  
Yagi Formulas

Send Replies or notes for publication to: <Ham-Ant@UCSD.Edu>  
Send subscription requests to: <Ham-Ant-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Ant Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-ant".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: Wed, 20 Apr 1994 23:36:38 GMT  
From: ihnp4.ucsd.edu!agate!news.ossi.com!news.fai.com!amdahl!juts.ccc.amdahl.com!  
p1dbg02!dws30@network.ucsd.edu  
Subject: 2m/70cm on a Honda.. Which One?  
To: ham-ant@ucsd.edu

Rumor has is keying up with some rigs will kill the computer in the car.  
I would like to know if this would be a problem with a 89 Accord. I  
would also like to know what 2m/70cm antenna and mounting seems to work  
the best. I have a FT-530 and will most likely pick up a mobile, so if  
you have any helpfull hints on those I am very interested in that info  
as well.

73

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Dave Sharpe Sunnyvale Ca. DWS30@duts.ccc.amdahl.com

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Date: 20 Apr 94 09:06:10 CDT  
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!vixen.cso.uiuc.edu!uchinews!  
cdsmail!timbuk.cray.com!walter.cray.com!ned.cray.com!cbetz@network.ucsd.edu  
Subject: 2m Amplifier mounted at antenna?  
To: ham-ant@ucsd.edu

In article <2ou099\$kap@taco.cc.ncsu.edu>, nsyslaw@riogrande.acs.ncsu.edu (Lou Williams) writes:

> I was curious if anyone here has tried using a 2m amplifier  
> mounted at the antenna, instead of at the rig. Most installations  
> I've seen have them mounted with short patch cables aft of the  
> rig, but in my case the feedline is over 100' and I was curious  
> if it would perform better / no-difference when mounted nearer  
> to the antenna? (The power would be switched in/out with the  
> rig. I've seen too many instances of amplifiers gone astray  
> and sending splatter/interference all over the band, so I DON't  
> wish to leave it on all the time).  
>  
> I realize that the feedline drop will be a drop going into the  
> amplifier vs having the amplifier output dropped because of  
> the feedline. What I've never seen is a comparison of which  
> method performs better.

I think perhaps the biggest problem is the voltage drop you'll experience on the power cables to the amp, unless you are running a rather small amp which only draws an amp or two of current. If for example, you are running a 10 watt in, 170 watt out brick, the brick will be drawing around 25 - 30 amps on the 12 volt supply lines. Unless you are going to mount the power supply at the antenna also (probably not real practical), you'd better run some pretty hefty power cables out to the amp. Otherwise, you are going to experience some significant voltage drop to the amp.

Charlie Betz N0AKC

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Date: 20 Apr 94 09:11:08 CDT  
From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!howland.reston.ans.net!  
vixen.cso.uiuc.edu!uchinews!cdsmail!timbuk.cray.com!walter.cray.com!ned.cray.com!  
cbetz@network.ucsd.edu  
Subject: 70cm Parabolic Dish  
To: ham-ant@ucsd.edu

In article <1994Apr15.224452.18046@gov.nt.ca>, ve8ev@gov.nt.ca (John Boudreau) writes:

>  
> Is it worthwhile to try to use a 2.5m parabolic dish for 70cm?  
> I have a surplus TVRO dish and would use a 3 turn helix as a feed.  
> If so, what would be the smallest practical size for the reflector  
> on the helix to maximize the gain while blocking the least amount  
> of signal from the dish. Also, what sort of gain could I expect?  
> It would be used for 70cm EME and also for satellite work.  
>  
>

A 2.5m (10 ft.) dish is too small for 70cm EME. This size dish is generally considered the minimum size for 1296 MHz EME.

Charlie Betz N0AKC

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Date: 21 Apr 94 13:52:42 GMT  
From: sdd.hp.com!vixen.cso.uiuc.edu!ux2.cso.uiuc.edu!ignacy@hplabs.hp.com  
Subject: Power (?) noise in antenna  
To: ham-ant@ucsd.edu

Lately my 2x10m dipole picks up a S7-9 noise on all bands. This noise is steady and sometimes can be cut out by noise blanker but not always. The noise disappears late night and reappears at 8-9 am. Nothing at home seems to generate it. In particular, a few feet of wire in the house as the antenna picks no noise.

One side of the antenna is about 6ft to the power lines, so I thought that the noise is coming from them. However, my HT does does not pick up anything. An AM portable radio finds buzzes close to power cords. It has found a loud buzz (similar to that in my radio) at one HV pole, about 200 ft from my yard.

I am unsure what to do. If this is a power noise, why it disappears at night? Is condensation suppressing sparks at some power insulator? I have handi-finder to find a noise with the HT, but since HT does not pick up anything, nothing can be found. I could ask the power company to come and investigate that HV pole. However, if they don't find anything, they will ignore my later calls. Any ideas?

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Date: 20 Apr 1994 08:11:29 -0700  
From: get.hooked.net!news.sprintlink.net!connected.com!seatimes.seatimes.com!  
seatimes.seatimes.com!not-for-mail@decwrl.dec.com  
Subject: Yagi Formulas  
To: ham-ant@ucsd.edu

You will find a nice write up in the ARRL Handbook (at least the '94 edition) regarding spacing of elements on Yagi antennas. There is a correspondance between seperation of elements and the lengths of the reflector, directors, and driven elements.

For general purposes though, the seperation between elements should be on the order of .15 - .25 wavelength. The .25 figure seems to be more forgiving of slight errors in element length and provides for a little more broadening of the bandwidth.

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End of Ham-Ant Digest V94 #115  
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